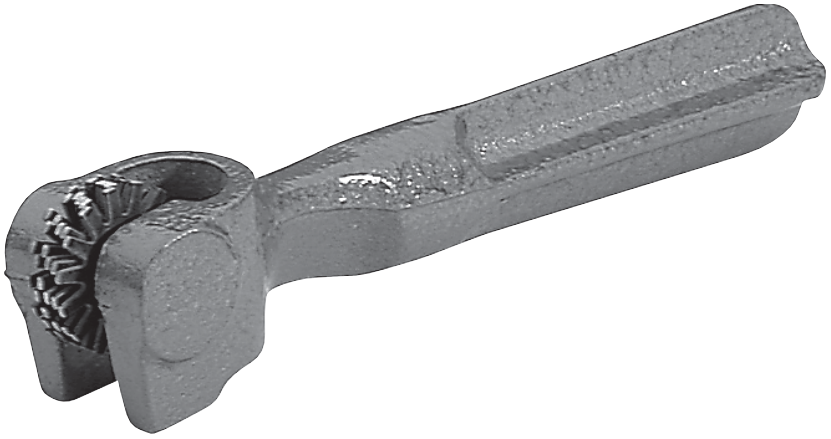
GRINDING WHEEL DRESSER

Model 1682

ASSEMBLY & OPERATING INSTRUCTIONS



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HARBOR FREIGHT TOOLS®

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For technical questions and replacement parts please call 1-800-444-3353.

THANK YOU for choosing a **HARBOR FREIGHT TOOLS** product. For future reference, please complete the owner's record below:

Model_____ **Serial No.**_____ **Purchase Date**_____

SAVE THE RECEIPT AND THESE INSTRUCTIONS. It is important that you read the entire manual to become familiar with the unit BEFORE you begin assembly.

Expose sharp new cutting surfaces and give your worn grinding wheels new life!

Technical Specifications

Cutters:	Replaceable hardened star-toothed cutters
Dimensions:	6" x 1-1/2" x 1-3/8"

IMPORTANT SAFETY INSTRUCTIONS!

READ ALL INSTRUCTIONS BEFORE USING THIS PRODUCT!

Safety Warnings and Precautions

WARNING: When using product, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment.

Read all instructions before using this product!

1. **Keep work area clean**. Cluttered areas invite injuries.
2. **Observe work area conditions**. Keep work area well lighted.
3. **Store idle equipment**. When not in use, the Grinding Wheel Dresser must be stored in a dry location to inhibit rust. Always lock up products and keep out of reach of children.
4. **Use the right product for the job**. There are certain applications for which the Dresser was designed. Do not modify the Grinding Wheel Dresser and do not use it for a purpose for which it was not intended.
5. **Check for damaged parts**. Before using any product, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for any broken or damaged parts and any other conditions that may affect its operation. Replace or repair damaged or worn parts immediately.
6. **Replacement parts and accessories**. When servicing, use only identical replacement parts. Use of any other parts will void the warranty.
7. **Do not operate product if under the influence of alcohol or drugs**. Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate the product.
8. **Use eye and ear protection**. Always wear ANSI approved impact safety goggles. Wear a full face shield if you are producing metal filings. Wear an ANSI approved dust mask or respirator when working around metal, wood, and chemical dusts and mists.

9. **Do not overreach**. Keep proper footing and balance at all times. Do not reach over or across running machines.

10. **Maintain tools with care**. Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and, if damaged, have them repaired by an authorized technician. The handles must be kept clean, dry, and free from oil and grease at all times.

11. **Always check hardware and assembled parts after assembling.** All connections should be tight and hardware tightened.

12. **Keep hands out of the grinding area and away from the wheel.** Do not wear loose clothing that could get caught in grinding wheel.

13. **Wear appropriate clothing. Always wear ANSI approved gloves when working with a grinder.**

Warning: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Unpacking

When unpacking your Grinding Wheel Dresser, check to make sure that the product is intact and undamaged. If any parts are missing or broken, please call **HARBOR FREIGHT TOOLS at 1-800-444-3353.**

Assembly

Your Grinding Wheel Dresser comes completely assembled. Instructions are included for installing new Grinding Wheels when necessary. It is important that you read the entire manual to become familiar with the product BEFORE you use the Grinding Wheel Dresser.

Replacing Grinding Wheels (in the Dresser assembly)

1. The Grinding Wheels (3) will require replacing when they wear down due to repeated use. The duration of the Grinding Wheels (3) before necessary replacement will depend on the amount and intensity of use during dressing.

2. Check the Grinding Wheels (3) before every use to make certain that they are not exceedingly worn, or damaged.

3. Remove the Screw (2) as shown in Figures 1 and 2. When the Screw is pulled out the six Grinding Wheels (3) will slide off of it.

Figure 1

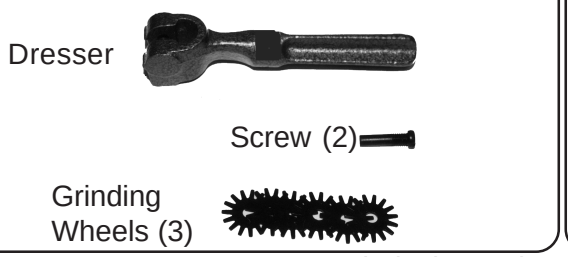


Figure 2

4. Set the six new Grinding Wheels (3) into the jaws of the Grinding Wheel Dresser. Slide the Screw (2) through the Grinding Wheel Dresser (1) and through the Grinding Wheels (3). Tighten the Screw (2) back into place.

Operation

When operating your Grinding Wheel Dresser, refer to Figures 1 and 2.

1. **Make certain you are wearing appropriate eye protection, work gloves and protective clothing. Make certain that all guards are in place.**

2. Turn on the grinder you will be using. Make certain to follow all safety instructions as outlined in both this manual and the grinder's owner's manual.

3. Firmly grasp the Grinding Wheel Dresser as shown in Figure 2. Align the Dresser with the grinding wheel so that the Dresser Wheels (3) are in direct contact with the grinding wheel -see Figure 2.

4. Hold the Dresser firmly on the grinder tool rest. Two tabs steady the Dresser on the tool rest for an even finish. With firm and even pressure, guide the Dresser back and forth across the rotating grinding wheel, holding it square to the surface.

5. The straight handle offers firm control. Continue to apply pressure until the grinding wheel's surface is flat and squared true.

6. **Warning: Always be alert to, and protect yourself from heat, sparks and filings.**

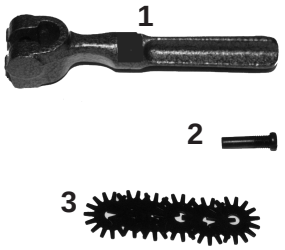
Maintenance

1. Check the Screw (2) and Grinding Wheels (3) before each use. Make certain that the Screw (2) is tight and that the Grinding Wheels are not worn or damaged.

2. Clean the Grinding Wheel Dresser and Grinding Wheels after each use. Remove any debris, grease, oil and dirt.

Parts List

Part #	Description	Quantity
1	Grinding Wheel Dresser	1
2	Screw	1
3	Grinding Wheels	6



Note: Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.

PLEASE READ THE FOLLOWING CAREFULLY

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